STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-513286
PLACE ID 191922, LTF 80476

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2, and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes CO River LLC to operate the River Sands RV Resort Wastewater Treatment Plant located near Interstate 10 West, exit at Ehrenberg Parker Highway in Ehrenberg in Arizona in La Paz County over the groundwater of the Parker Groundwater Basin, in Township 3N, Range 22W, Section 10, Gila and Salt River Baseline and Meridian.

This permit becomes effective on the date of the Water Quality Division Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1. PERMITTEE INFORMATION

Facility Name:	River Sands RV Wastewater Treatment Plant
Facility Address:	Interstate 10 West, exit at Ehrenberg Parker Highway Ehrenberg, Arizona
County:	La Paz
Permitted Flow Rate:	52,500 gallons per day
Permittee:	CO River LLC
Permittee Address:	6589 S. King Ranch Road #103J Box 6 Gold Canyon, Arizona 85118
Facility Contact:	Brad Woodruff, Manager
Emergency Phone No.:	602-796-1800
Latitude/Longitude:	33° 36' 44.5" N/ 114° 30' 59.4" W
Legal Description:	Township 3N, Range 22W, Section 10, Gila and Salt River Baseline and Meridian

1.2. AUTHORIZING SIGNATURE

_____

Trevor Baggiore, Director
Water Quality Division
Arizona Department of Environmental Quality
Signed this _____ day of _____, 2020

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2.0 SPECIFIC CONDITIONS

[A.R.S. §§ 49-203(4), 49-241(A)]

2.1. FACILITY / SITE DESCRIPTION

[A.R.S. § 49-243(K)(8)]

The permittee is authorized to operate River Sands RV Resort WWTP with a maximum monthly average flow of 0.052 mgd at the built out. The facility will consist of three phases, Phase I will be rated at 0.015 mgd, Phase II will be rated at 0.023 mgd and Phase III will be rated at 0.014 mgd. The WWTP will serve RV Resort consisting of 400 RV spaces at the built out, laundry facilities, a small store and a clubhouse.

The treatment train will consists of a common headworks with manual screen, a chlorine contact tank, a de-chlorination and a sludge holding tank. These components are rated for 0.0525 mgd for all three phases. The facility proposed to commence the Phase I and Phase II at the same time.

Phase I and Phase II WWTP: Phase I and Phase II WWTP treatment will have capacity to treat maximum monthly average flow of 0.038 mgd. Phase I will be rated at 0.015 mgd will serve 115 RV spaces. Phase I treatment train will include headworks with screen, a flow equalization tank, an anoxic tank, two aeration tanks, one reaeration tank and a clarifier. Phase II WWTP will be rated at 0.023 mgd (23,125 gallons per day) and new 185 RV spaces will be added. Phase II will utilize the common headworks, flow equalization tank from Phase I, an anoxic tank, two aeration tanks, one reaeration tank and a clarifier.

Phase III WWTP: Phase III treatment train will have capacity to treat 0.014 mgd (14,375 gallons per day) and will add 115 additional RV spaces. The wastewater from common headworks flows to an existing equalization tank and a new flow equalization tank. The flow will be split and diverted to the treatment trains. The Phase III treatment train consists of an anoxic tank, two aeration tanks, one reaeration tank and a clarifier.

The clarified effluent from all three phases will be disinfected through chlorination and then de-chlorinated prior to discharge. The sludge from all three phases will be stored in sludge holding tank. The sludge will be then dewatered to sludge dewatering Geo-membrane Tubes. The Geo-membrane Tubes will be placed on concrete pad. Sludge, including screenings, grit, and scum, will be hauled off-site for management or disposal in accordance with state and federal regulations. The effluent will be discharged through two infiltration ponds located at the site. Both infiltration ponds will be constructed in conjunction with the Phase I and Phase II.

The depth to groundwater is approximately 15 feet below ground surface and the direction of groundwater flow is towards the south-southwest.

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

The site includes the following permitted discharging facilities:

Table 1: DISCHARGING FACILITIES

Facility	Latitude	Longitude
River Sands RV WWTP	33° 36' 44.5" N	114° 30' 59.4" W
Infiltration Pond #1	33° 36' 45.1" N	114° 30' 58.6" W
Infiltration Pond #2	33° 13' 44.13" N	114° 33' 58.4" W

2.1.1. Annual Registration Fee

[A.R.S. § 49-242 and A.A.C. R18-14-104]

The annual registration fee for this permit is payable to ADEQ each year. The annual registration fee flow rate is established by the permitted flow rate identified in Section 1.1. If the facility is not constructed or is incapable of discharge, the permittee may be eligible for reduced fees pursuant to A.A.C. R18-14-104(A), Table 2. Send all correspondence requesting reduced fees to the Groundwater Protection Value Stream. Please reference the permit number, LTF number, and the reason for requesting reduced fees under this rule.

2.1.2. Financial Capability

[A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The estimated dollar amount for facility closure is $114,392. The financial capability was demonstrated through Performance Surety Bond per A.A.C. R18-9-A203(C)(2).

2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)

[A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The treatment facility shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in A.A.C. R18-9-B204. The facility shall meet the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

The treatment facility shall not exceed a maximum seepage rate of 550 gallons per day per acre for all containment structures within the treatment works.

The facility requested alternate (reduced) pathogen monitoring frequency per A.A.C. R18-9-B204(B)(4)(a)(iii). The facility will be installing chlorine residual monitoring equipment. In order to reduce the frequency, ADEQ requires the permittee to conduct a 90-day test of residual chlorine as an alternative indicator parameter, while monitoring the effluent as per Section 4.2, Table 7: 90-DAY ALTERNATIVE INDICATOR PARAMETER TEST. During the 90-day test, the applicant shall conduct continuous chlorine residual monitoring and daily fecal coliform monitoring. After the test, the permittee shall submit a report to the Groundwater Protection Value Stream for review. If the Groundwater Protection Value Stream concludes that the test has established the appropriate levels of chlorine residual to meet the fecal coliform discharge limit, then ADEQ will approve a Fecal coliform monitoring frequency reduction from daily to weekly, and the permittee shall be required to submit a permit amendment application per Compliance Schedule Item #9 to set an Alert Level for residual chlorine.

2.2.1. Engineering Design

The WWTP was designed as per the design report prepared and stamped, dated, and signed (sealed) by Brian Bernard, P.E. (Professional Engineer) Civil Design Solutions, dated January 7, 2020, updated design report dated June 9, 2020, updated design report dated July 30, 2020 and subsequent sealed submittals that served as additions to the design report.

2.2.2. Site-Specific Characteristics

Site specific characteristics were not used to determine BADCT.

2.2.3. Pre-Operational Requirements

Prior to initiating use of the use of Phase I, II and II and infiltration ponds, the permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department per the compliance schedule in Section 3.0. The certificate shall be submitted to the Groundwater Protection Value Stream.

2.2.4. Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the treatment facility site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table 10: FACILITY INSPECTION AND OPERATIONAL MONITORING
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the

facility log book as per Section 2.7.2 and reported to ADEQ in the event of a violation or exceedance as per Section 2.7.3.

2.2.5. Reclaimed Water Classification

[A.A.C. R18-9-B701(C)(2)(a), A.A.C. R18-11-303 through 307]

Not applicable.

2.2.6. Certified Areawide Water Quality Management Plan Conformance

[A.A.C. R18-9-A201(B)(6)(a)]

Facility operations must conform to the approved Certified Areawide Water Quality Management Plan according to the 208 consistency determination in place at the time of permit issuance.

2.3. DISCHARGE LIMITATIONS

[A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205(B)]

1. The permittee is authorized to operate the treatment facility with a maximum average monthly flow of 0.0525 mgd in three phases. The flow limit for Phase I and Phase II will be 0.038 and the flow for Phase III will be 0.0525 mgd. Tables listed for discharge monitoring are located in Section 4.2, and include Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd or Table 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd for Phase I and II (this table will be discontinued after the commencement of Phase III), and **Error! Reference source not found.** for Phase III. The permittee shall monitor under the table which is commensurate with the most current constructed phase. Monitoring is not required for phases not yet constructed.
2. The permittee shall notify all users that the materials authorized to be disposed of through the treatment facility are typical household sewage and pre-treated commercial wastewater and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BADCT.
4. Specific discharge limitations are listed in Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd .

2.4. POINT OF COMPLIANCE (POC)

[A.R.S. § 49-244]

The Points of Compliance (POCs) have been established at the following locations:

Table 2: POINT(S) OF COMPLIANCE

POC #	POC Location	Latitude (North)	Longitude (West)
MW-1 (Conceptual)	Downgradient of the WWTP	33° 36’ 2.9”	114° 31’ 2.9”

POC #1 well is a conceptual well and groundwater monitoring is not required at the point of compliance. The Director may amend this permit to designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need.

2.5. MONITORING REQUIREMENTS

[A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)]

Unless otherwise specified in this permit, all monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. Unless otherwise provided, monitoring shall commence the first full monitoring period following permit issuance. All sampling, preservation and holding times shall be in

accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made immediately available for review by ADEQ personnel.

2.5.1. Pre-Operational Monitoring

Not applicable.

2.5.2. Routine Discharge Monitoring

The permittee shall monitor the effluent according to Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd or Table 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd or **Error! Reference source not found.**. Representative samples of the effluent shall be collected at the outlet of the chlorine contact basin.

2.5.3. Reclaimed Water Monitoring

Not applicable.

2.5.4. Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table 10: FACILITY INSPECTION AND OPERATIONAL MONITORING.

If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in case of a violation or exceedance as per Section 2.7.3.

2.5.5. Groundwater Monitoring And Sampling Protocols

Not applicable.

2.5.6. Surface Water Monitoring And Sampling Protocols

Routine surface water monitoring is not required under the terms of this permit.

2.5.7. Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state-approved methods. If no state-approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. If all methods have detection limits higher than the applicable limit, the permittee shall follow the applicable contingency requirements of Section 2.6 and may propose “other actions” including amending the permit to set higher limits. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of state-certified laboratories in Arizona can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, Arizona 85007
Phone: (602) 364-0720

2.5.8. Installation And Maintenance Of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the Groundwater Protection Value Stream for approval prior to installation and the permit shall be amended to include any new monitoring points.

2.6. CONTINGENCY PLAN REQUIREMENTS

[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204 and R18-9-A205]

2.6.1. General Contingency Plan Requirements

At least one copy of this permit and the approved contingency and emergency response plan submitted in the application shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

Any AL exceedance, or violation of an AQL, DL, or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3, unless more specific reporting requirements are set forth in Section 2.6.2 through 2.6.5.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL or DL. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling had been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL, AQL or any other permit condition. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit.

2.6.2. Exceeding Of Alert Levels And Performance Levels

2.6.2.1. Exceeding Of Performance Levels Set For Operational Conditions

For freeboard alert levels, the permittee shall comply with the requirements as specified in Section 4.2, Table 10: FACILITY INSPECTION AND OPERATIONAL MONITORING to prevent the overtopping of infiltration ponds. If infiltration ponds are overtopped, the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3.

If an alert level set in Section 4.2, Table 10: FACILITY INSPECTION AND OPERATIONAL MONITORING has been exceeded the permittee shall:

1. Notify the Groundwater Protection Value Stream within five (5) days of becoming aware of the exceedance.
2. Submit a written report to the Groundwater Protection Value Stream within 30 days after becoming aware of the exceedance. The report shall document all of the following:
    a. A description of the exceedance and the cause of the exceedance;
    b. The period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
    c. Any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
    d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
    e. Any malfunction or failure of pollution control devices or other equipment or process.

3. The facility is no longer on alert status once the operational indicator no longer indicates that a performance level is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2. Exceeding Of Alert Levels (ALs) Set For Discharge Monitoring

1. If an AL set in Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd has been exceeded, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
    a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
    b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and
    c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameter(s) in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the approved contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to the AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.
3. Within thirty days of an AL exceedance, the permittee shall submit the laboratory results to the Groundwater Protection Value Stream along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1. Exceeding Permit Flow Limit

1. If the Alert Level (AL) for average monthly flow in Section 4.2, Table 6 or Table 8 (for Phases I & II) has been exceeded, the permittee shall begin construction of the next phase, or submit a report to the ADEQ Groundwater Protection Value Stream detailing the reasons it is not necessary to begin the next phase of construction. Acceptance of the report instead of beginning the next phase of construction requires ADEQ approval.
2. If the AL for average monthly flow in Section 4.2, Table 9 (Phase III) has been exceeded, the permittee shall submit an application to the Groundwater Protection Value Stream for an APP amendment to expand the WWTP, or submit a report detailing the reasons an expansion is not necessary. Acceptance of the report instead of an application for expansion requires ADEQ approval.

2.6.2.2.2. Contingency Sampling Plan For Fecal Coliform And Chlorine Residual Exceedances:

Once the alert level for chlorine residual is established, the following contingency shall apply:

1. The permittee shall notify ADEQ within 5 days after an exceedance of the Alert Level (AL) for chlorine residual and/or the Discharge Limit (DL) for Fecal Coliform, as listed in Section 4.2, Table 8.

2. If the AL for chlorine residual or the DL for Fecal Coliform in Section 4.2, Table 8, is exceeded, the permittee shall immediately begin daily verification sampling for Fecal Coliform, and continue until the results of four (4) consecutive daily sampling events meet the DL for Fecal Coliform.
3. Upon receiving four (4) consecutive sample results below the DL for Fecal Coliform, the permittee may return to the weekly Fecal Coliform sampling.
4. The permittee shall submit a report including the laboratory results to ADEQ documenting that the effluent has met the standards for Fecal Coliform within ten (10) days after completing the above sampling.

2.6.3. Discharge Limit Violation

1. If a DL set in Section 4.2, Table 1Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd , Table 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd , or **Error! Reference source not found.** has been violated, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
    a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
    b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
    c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, as necessary to identify the cause of the violation.

    The permittee shall submit a report to the Groundwater Protection Value Stream according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or groundwater, notification of downstream or downgradient users who may be directly affected by the discharge, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ-approved contingency plan, or separately approved according to Section 2.6.6.
2. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4. Aquifer Quality Limit Exceedances

Not applicable - groundwater monitoring is not required under this permit.

2.6.5. Emergency Response And Contingency Requirements For Unauthorized Discharges

[A.R.S. § 49-201(12) AND PURSUANT TO A.R.S. § 49-241]

2.6.5.1. Duty To Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2. Discharge Of Hazardous Substances Or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee

shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the Groundwater Protection Value Stream within 24 hours of discovering the discharge of hazardous material which (a) has the potential to cause an AWQS or AQL exceedance, or (b) could pose an endangerment to public health or the environment.

2.6.5.3. Discharge Of Non-Hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the Groundwater Protection Value Stream within 24 hours of discovering the discharge of non-hazardous material which has the potential to cause an AQL exceedance, or could pose an endangerment to public health or the environment.

2.6.5.4. Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to the Groundwater Protection Value Stream within 30 days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in the notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6. Corrective Actions

Specific contingency measures identified in Section 2.6 have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5, the permittee shall obtain written approval from the Groundwater Protection Value Stream prior to implementing a corrective action to accomplish any of the following goals in response to exceedance of an AL, AQL, DL, or other permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer;
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within 30 days of completion of any corrective action, the operator shall submit to the Groundwater Protection Value Stream, a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7. REPORTING AND RECORDKEEPING REQUIREMENTS

[A.R.S. § 49-243(K)(2) and A.A.C. R18-9-A206(B) and R18-9-A207]

2.7.1. Self-Monitoring Report Form

1. The permittee shall complete the Self-Monitoring Reporting Forms (SMRFs) provided by ADEQ, and submit the completed report through the myDEQ online reporting system. The permittee shall use the format devised by ADEQ.

2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter "not required" on the form, include an explanation, and submit the form to the Groundwater Protection Value Stream.

3. The tables contained in Section 4.0 list the monitoring parameters and the frequencies for reporting results on the SMRF:

    a. Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd

    b. Table 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd

    c. Table 9: ROUTINE DISCHARGE MONITORING FOR PHASE III - 0.0525 mgd

    The parameters listed in the above-identified tables from Section 4.0 are the only parameters for which SMRF reporting is required.

2.7.2. Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made immediately available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

1. Name of inspector;
2. Date and shift inspection was conducted;
3. Condition of applicable facility components;
4. Any damage or malfunction, and the date and time any repairs were performed;
5. Documentation of sampling date and time; and
6. Any other information required by this permit to be entered in the log book.
7. Monitoring records for each measurement shall comply with A.A.C. R18-9-A206(B)(2).

2.7.3. Permit Violation And Alert Level Status Reporting

1. The permittee shall notify the Groundwater Protection Value Stream within five (5) days (except as provided in Section 2.6.5) of becoming aware of an AL exceedance, or violation of any permit condition, AQL, or DL for which notification requirements are not specified in Sections 2.6.2 through 2.6.5.

2. The permittee shall submit a written report to the Groundwater Protection Value Stream within 30 days of becoming aware of the violation of any permit condition, AQL, or DL. The report shall document all of the following:

    a. Identification and description of the permit condition for which there has been a violation and a description of the cause;

    b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;

    c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;

d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;

e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and

f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4. Operational, Other Or Miscellaneous Reporting

The permittee shall record the information as required in Section 4.2, Table 10: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2, and report to the Groundwater Protection Value Stream any violations or exceedances as per Section 2.7.3.

2.7.5. Reporting Location

All Self-Monitoring Report Forms (SMRFs) shall be submitted Through the myDEQ portal accessible on the ADEQ website at: http://www.azdeq.gov/welcome-mydeq

All other documents required by this permit shall be mailed to:

The Arizona Department of Environmental Quality
Groundwater Protection Value Stream
Mail Code 5415B-3
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4571

2.7.6. Reporting Deadline

The following table lists the quarterly report due dates:

Table 3: QUARTERLY REPORTING DEADLINES	
Monitoring Conducted During Quarter:	**Quarterly Report Due By:**
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

The following table lists the semi-annual and annual report due dates if applicable:

Table 4: (SEMI-)ANNUAL REPORTING DEADLINES	
Monitoring Conducted:	**Report Due By:**
Semi-annual: January-June	July 30
Semi-annual: July-December	January 30
Annual: January-December	January 30

2.7.7. Changes To Facility Information In Section 1.0

The Groundwater Protection Value Stream shall be notified within ten days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, or Emergency Telephone Number.

2.8. Temporary Cessation

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the Groundwater Protection Value Stream before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

1. If applicable, direct the wastewater flows from the facility to another state-approved wastewater treatment facility;
2. Correct the problem that caused the temporary cessation of the facility; and
3. Notify the Groundwater Protection Value Stream with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.
4. Submittal of Self-Monitoring Report Forms (SMRFs) is still required; report "temporary cessation" in the comment section.

At the time of notification the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Groundwater Protection Value Stream of the operational status of the facility every three years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9. Closure

[A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to the Groundwater Protection Value Stream of the intent to cease operation without resuming activity for which the facility was designed or operated. Submittal of SMRFs is still required; report "closure in process" in the comment section.

2.9.1. Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to the Groundwater Protection Value Stream, a closure plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3).

If the closure plan achieves clean-closure immediately, ADEQ shall issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean-closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2. Closure Completion

Upon completion of closure activities, the permittee shall give written notice to the Groundwater Protection Value Stream indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean-closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean-closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean-closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with the AWQS at the applicable POC or, for any pollutant for which the AWQS was exceeded at the time this permit was issued, further action is necessary to prevent the facility from further degrading the aquifer at the applicable POC with respect to that pollutant;
3. Remedial, mitigative or corrective actions or controls are necessary to comply with A.R.S. § 49-201(30) and Title 49, Chapter 2, Article 3;
4. Further action is necessary to meet property use restrictions.
5. SMRF submittals are still required until Clean Closure is issued.

2.10. Post-closure

[A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)]

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by the Groundwater Protection Value Stream.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Protection Value Stream a post-closure plan that addresses post-closure maintenance and monitoring actions at the facility. The post-closure plan shall meet all requirements of A.R.S. §§ 49-201(30) and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the post-closure plan, this permit shall be amended or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the post-closure plan.

2.10.1. Post-Closure Plan

A specific post-closure plan may be required upon the review of the closure plan.

2.10.2. Post-Closure Completion

Not required at the time of permit issuance.

3.0 COMPLIANCE SCHEDULE

[A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

Unless otherwise indicated, for each compliance schedule item listed below, the permittee shall submit the required information to the Groundwater Protection Value Stream.

Table 5: COMPLIANCE SCHEDULE ITEMS

No.	Description	Due By:	Permit Amendment Required?
Engineer's Certificate of Completion			
1	The permittee is required to submit a signed, dated and sealed Engineer's Certificate of Completion (ECOC) for the Phase I treatment train	Prior to discharging under Phase I and within 90 days of completion of construction.	No
2	The permittee is required to submit a signed, dated and sealed Engineer's Certificate of Completion (ECOC) for the Phase II treatment train	Prior to discharging under Phase II and within 90 days of completion of construction.	No
3	The permittee is required to submit a signed, dated and sealed Engineer's Certificate of Completion (ECOC) for the Phase III treatment train	Prior to discharging under Phase III and within 90 days of completion of construction.	No
4	The permittee is required to submit a signed, dated and sealed Engineer's Certificate of Completion (ECOC) for the Infiltration ponds.	Prior to discharging to recharge basin and within 90 days of completion of construction.	No
90-day Fecal Coliform Testing for Alternate Monitoring			
5	The permittee shall begin monitoring under Section 4.2, Table 7.	Within 30 days after the date of commencement of operation of the new WWTP.	No
6	The permittee shall notify ADEQ when the 90-day test has been completed, and the permittee may cease monitoring under Section 4.2, Table 7 and shall continue monitoring under Section 4.2 Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd .	Within 10 days after collecting the last sample.	No
7	The permittee shall submit a 90-day Test Report to ADEQ. The report shall identify a range of chlorine residual values that will ensure that the effluent meets the discharge limits for Fecal Coliform in Section 4.2, Table 7.	Within 30 days after completing the 90-day test.	No
8	The permittee may cease daily Fecal Coliform monitoring under Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd and commence weekly Fecal Coliform monitoring under Section 4.2, Table 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd .	Upon receiving written approval of the 90-day Test Report from ADEQ.	No

Table 5: COMPLIANCE SCHEDULE ITEMS			
No.	**Description**	**Due By:**	**Permit Amendment Required?**
9	The permittee shall submit an APP Amendment Application to the Department to set alert levels for chlorine residual in Section 4.2, Table 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd .	Within 30 days after receiving written approval of the 90-day Test Report from ADEQ	Yes
Financial Assurance Mechanism			
10	The permittee shall submit a demonstration that the financial assurance mechanism listed in Section 2.1, Financial Capability, is being maintained as per A.R.S. 49-243.N.4 and A.A.C. R18-9-A203(H) for all estimated closure and post-closure costs including updated costs submitted under Section 3.0, No. 11 below. The demonstration shall include a statement that the closure and post-closure strategy has not changed, the discharging facilities listed in the permit have not been altered in a manner that would affect the closure and post-closure costs, and discharging facilities have not been added. The demonstration shall also include information in support of a performance surety bond as required in A.A.C. R18-9-A203(C)(2).	Every six years from the date of permit signature, for the duration of the permit.	No
11	The permittee shall submit updated cost estimates for facility closure and post-closure, as per A.A.C. R18-9-A201(B)(5) and A.R.S. 49-243.N.2.a.	Every six years from the date of permit signature, for the duration of the permit.	Yes

4.0 TABLES OF MONITORING REQUIREMENTS

4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.

4.2. COMPLIANCE OR OPERATIONAL MONITORING

Table 6: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd					
Sampling Point Number	**Sampling Point Identification**			**Latitude**	**Longitude**
1	At the outlet of the chlorine contact basin			33° 36' 44.4" N	114° 30' 58.98" W
2	Phase I - Flow meter downstream of EQ tank in each Phase			33° 36' 43.5" N	114° 31' 0.05" W
3	Phase II - Flow meter downstream of EQ tank in each Phase			33° 36' 43.5" N	114° 31' 0.07" W
Parameter	**Alert Level**	**Discharge Limit**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Total Flow[1]: Daily[2]	Not Established[3]	Not Established	mgd[4]	Daily	Quarterly
Total Flow: Monthly Average[5]	0.036	0.038	mgd	Monthly Calculation	Quarterly
Fecal Coliform: Single sample maximum	Not Established	800	MPN[6]	Daily[7]	Quarterly
Fecal Coliform: four (4) of seven (7) samples in a week[8]	Not Established	200[9]	MPN	Weekly Evaluation	Quarterly
Total Nitrogen[10] :Five-sample rolling geometric mean[11]	8.0	10.0	mg/l[12]	Monthly Calculation	Quarterly

[1] Total flow for all methods of disposal (Recharge)

[2] Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily.

[3] Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance

[4] mgd = million gallons per day

[5] Monthly Average means the calculated average of daily flow values in a month

[6] MPN = Most Probable Number / 100 ml sample. For MPN, a value of <2.2 shall be considered to be non-detect.

[7] For fecal coliform, "daily" sampling means every day in which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four samples in each week are obtained and analyzed

[8] Week means a seven-day period starting on Sunday and ending on the following Saturday. The reporting form for this parameter consists of 13 weeks per quarter

[9] Fecal coliform 4 of 7 samples requires entering "Compliance" or "Non-compliance" on the SMRF for each week of the reporting period. Evaluate the daily fecal coliform results for that week (Sunday through Saturday). If, of these seven days, four or more of the daily fecal coliform results are <200 MPN, report "Compliance" for that week's entry on the SMRF. If three or fewer of the daily fecal coliform results are <200 MPN, report "Non-compliance" for that week's entry on the SMRF

[10] Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

[11] The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. *Example:* $GM_5 = \sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$

For the first four samples enter "Not Required" on SMRFs.

[12] mg/l = milligrams per liter

TABLE 6: ROUTINE DISCHARGE MONITORNG FOR PHASE I and II – 0.038 mgd (Continued)					
Parameter	**AL**	**DL**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Metals:					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

TABLE 6: ROUTINE DISCHARGE MONITORNG FOR PHASE I and II – 0.038 mgd (Continued)					
Parameter	**AL**	**DL**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Volatile Organic Compounds (VOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total)[13]	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

[13]Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

Table 7: 90-DAY ALTERNATIVE INDICATOR PARAMETER TEST					
Monitoring under this table is required during 90-day test period and monitoring may be discontinued after ADEQ approves the results of the 90-day test. The monitoring results under this table are required to be submitted in a report per Compliance Schedule Item #7. The results for this table are not required to be submitted in SMRFs.					
Sampling Point Number	**Sampling Point Identification**			**Latitude**	**Longitude**
1	At the outlet of the chlorine contact basin			33° 36' 44.4" N	114° 30' 58.98" W
Parameter	**Alert Level**	**Discharge Limit**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Fecal Coliform	Not Established[14]	Not Established	MPN[15]	Daily[16]	Once[17]
Chlorine Residual	Not Established	Not Established	mg/l	Continuous[18]	Once

[14] NE = Not Established = Monitoring is required but no limits have been specified.
[15] MPN = Most Probable Number / 100 ml sample.
[16] Daily means everyday except weekends
[17] After the 60-day test period, submit the results to ADEQ comparing the results for chlorine residual with the results for Fecal Coliform (see Compliance Schedule Item #8).
[18] Continuous = Continuous monitoring shall be reported as the minimum reading during a 24 hour period.

Table 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd					
The permittee shall cease monitoring under Table 8 and shall commence monitoring under this table once ADEQ approves the results of the 90-day test for Alternate Indicator Parameter per Compliance Schedule Item #8.					
Sampling Point Number	**Sampling Point Identification**			**Latitude**	**Longitude**
1	At the outlet of the chlorine contact basin			33° 36' 44.4" N	114° 30' 58.98" W
2	Phase I - Flow meter downstream of EQ tank in each Phase			33° 36' 43.5" N	114° 31' 0.05" W
3	Phase II - Flow meter downstream of EQ tank in each Phase			33° 36' 43.5" N	114° 31' 0.07" W
Parameter	**Alert Level**	**Discharge Limit**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Total Flow[19]: Daily[20]	Not Established[21]	Not Established	mgd[22]	Daily	Quarterly
Total Flow: Monthly Average[23]	0.036	0.038	mgd	Monthly Calculation	Quarterly
Total Nitrogen[24] :Five-sample rolling geometric mean[25]	8.0	10.0	mg/l[26]	Monthly Calculation	Quarterly
Fecal Coliform[27]: Weekly Monitoring	Not Established	200	MPN[28]	Weekly[29]	Quarterly
Fecal Coliform[30]: Contingency Monitoring Only)	Not established	200	MPN	Daily/Suspended[31]	Quarterly
Chlorine Residual[32]	Reserved[33]	Not Established	mg/l	Continuous[34]	Quarterly

[19] Total flow for all methods of disposal (Recharge)
[20] Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily.
[21] Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance
[22] mgd = million gallons per day
[23] Monthly Average means the calculated average of daily flow values in a month
[24] Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen
[25] The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. Example: $GM_5 = \sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$

For the first four samples enter "Not Required" on SMRFs.
[26] mg/l = milligrams per liter
[27] Upon ADEQ approval of the 90-day test results, samples for Fecal Coliform may be collected and analyzed weekly. In the event a weekly Fecal Coliform sample exceeds the discharge limit, daily Fecal Coliform monitoring shall immediately be initiated as per contingency action described under Section 2.6.2.2.2. During daily contingency monitoring, weekly Fecal Coliform monitoring is suspended.
[28] MPN = Most Probable Number / 100 ml sample.
[29] Weekly = Samples shall be taken once in a week, only after completion of 90-day test.
[30] The monitoring is required only as a contingency action described under Section 2.6.2.2.2. If contingency action is triggered, the facility shall begin daily sampling for Fecal Coliform to meet DL of 200 CFU for four (4) consecutive days. If contingency is not triggered, indicate 'suspended' on SMRFs.
[31] Monitoring required only as contingency as per Section 2.6.2.2.2. If contingency is not triggered indicate 'Suspended' on SMRFs.
[32] In the event of an AL exceedance, the permittee shall commence daily contingency monitoring as per Section 2.6.2.2.2.
[33] Monitoring is required, and the alert level for residual chlorine shall be set under a permit amendment as described in Section 3.0, Compliance Schedule Item #7.
[34] Continuous = Residual chlorine shall be reported as the minimum reading during each 24 hour period.

TABLE 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd (Continued)					
Parameter	**AL**	**DL**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Metals:					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

TABLE 8: ROUTINE DISCHARGE MONITORING FOR PHASE I and II - 0.038 mgd (Continued)					
Parameter	**AL**	**DL**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Volatile Organic Compounds (VOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total)[35]	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

[35]Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

Table 9: ROUTINE DISCHARGE MONITORING FOR PHASE III - 0.0525 mgd					
The permittee shall commence monitoring under this table upon commencement of the operation of Phase III for flow of 0.0525 mgd.					
Sampling Point Number	**Sampling Point Identification**			**Latitude**	**Longitude**
1	At the outlet of the chlorine contact basin			33° 36' 44.4" N	114° 30' 58.98" W
2	Phase I - Flow meter downstream of EQ tank in each Phase			33° 36' 43.5" N	114° 31' 0.05" W
3	Phase II - Flow meter downstream of EQ tank in each Phase			33° 36' 43.5" N	114° 31' 0.07" W
4	Phase III - Flow meter downstream of EQ tank in each Phase			33° 36' 43.5" N	114° 31 0.1" W
Parameter	**Alert Level**	**Discharge Limit**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Total Flow[36]: Daily[37]	Not Established[38]	Not Established	mgd[39]	Daily	Quarterly
Total Flow: Monthly Average[40]	0.049	0.0525	mgd	Monthly Calculation	Quarterly
Total Nitrogen[41] :Five-sample rolling geometric mean[42]	8.0	10.0	mg/l[43]	Monthly Calculation	Quarterly
Fecal Coliform[44]: Weekly Monitoring	Not Established	200	MPN[45]	Weekly[46]	Quarterly
Fecal Coliform[47]: Contingency Monitoring Only)	Not established	200	MPN	Daily/Suspended[48]	Quarterly
Chlorine Residual [49]	Reserved[50]	Not Established	mg/l	Continuous[51]	Quarterly

[36] Total flow for all methods of disposal (Recharge)
[37] Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily.
[38] Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance
[39] mgd = million gallons per day
[40] Monthly Average means the calculated average of daily flow values in a month
[41] Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen
[42] The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. Example: $GM_5 = \sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$

For the first four samples enter "Not Required" on SMRFs.
[43] mg/l = milligrams per liter
[44] In the event a weekly Fecal Coliform sample exceeds the discharge limit, daily Fecal Coliform monitoring shall immediately be initiated as per contingency action described under Section 2.6.2.2.2. During daily contingency monitoring, weekly Fecal Coliform monitoring is suspended.
[45] MPN = Most Probable Number / 100 ml sample.
[46] Weekly = Samples shall be taken once in a week, only after completion of 90-day test.
[47] The monitoring is required only as a contingency action described under Section 2.6.2.2.2. If contingency action is triggered, the facility shall begin daily sampling for Fecal Coliform to meet DL of 200 CFU for four (4) consecutive days. If contingency is not triggered, indicate 'suspended' on SMRFs.
[48] Monitoring required only as contingency as per Section 2.6.2.2.2. If contingency is not triggered indicate 'Suspended' on SMRFs.
[49] In the event of an AL exceedance, the permittee shall commence daily contingency monitoring as per Section 2.6.2.2.2.
[50] Monitoring is required, and the alert level for residual chlorine shall be set under a permit amendment as described in Section 3.0, Compliance Schedule Item #7.
[51] Continuous = Residual chlorine shall be reported as the minimum reading during each 24 hour period.

Table 9: ROUTINE DISCHARGE MONITORING FOR PHASE III – 0.0525 mgd					
Parameter	**AL**	**DL**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Metals:					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

Table 9: ROUTINE DISCHARGE MONITORING FOR PHASE III – 0.0525 mgd					
Parameter	**AL**	**DL**	**Units**	**Sampling Frequency**	**Reporting Frequency**
Volatile Organic Compounds (VOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total)[52]	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

[52]Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

Table 10: FACILITY INSPECTION AND OPERATIONAL MONITORING			
The permittee shall record the inspection performance levels in a log book as per Section 2.7.2, and report any violations or exceedances as per Section 2.7.3. In the case of an exceedance, identify which structure exceeds the performance level in the log book.			
Pollution Control Structure/Parameter	**Performance Level**	**Inspection Frequency**	**Reporting Frequency**
Pump Integrity	Good working condition	Weekly	See Section 2.7.3
Treatment Plant Components	Good working condition	Weekly	
Infiltration Pond Freeboard	Two (2) Linear Foot	Weekly	
Infiltration Pond Vegetation Removal	No vegetation present in the infiltration pond or within five feet of the impoundment	Monthly	

5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

APP Application, dated:	February 6, 2020
Contingency Plan, dated:	April 2020
Final Hydrologist Report, dated:	August 13, 2020
Final Engineering Report, dated:	August 11, 2020
Public Notice, dated:	XXXX
Public Hearing, dated:	Not applicable
Responsiveness Summary, dated:	Not applicable

6.0 NOTIFICATION PROVISIONS

6.1. Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based on the amount of daily influent or discharge of pollutants in gallons per day (gpd) as established by A.R.S. § 49-242.

6.2. Duty to Comply

[A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3. Duty to Provide Information

[A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.4. Compliance with Aquifer Water Quality Standards

[A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an Aquifer Water Quality Standard (AWQS) at the applicable point of compliance (POC) for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an AWQS for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5. Technical and Financial Capability

[A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application, pursuant to A.A.C. R18-9-A203(C), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.6. Reporting of Bankruptcy or Environmental Enforcement

[A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. the filing of bankruptcy by the permittee; or
2. the entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.7. Monitoring and Records

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

6.8. Inspection and Entry

[A.R.S. §§ 49-1009, 49-203(B), and 49-243(K)(8)]

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.9. Duty to Modify

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

6.10. Permit Action: Amendment, Transfer, Suspension, and Revocation

[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

This permit may be amended, transferred, suspended, or revoked for cause, under the rules of the Department. The permittee shall notify the Groundwater Protection Value Stream in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1. Other Information

[A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

7.2. Severability

[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3. Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).